



**Asia-Pacific  
Economic Cooperation**

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**2016/SOM3/EPWG/017**

Agenda Item: 9.3

## **Briefing on Activities on Tsunami Alarming Along Central Coastal Zone Project**

Purpose: Information  
Submitted by: Viet Nam



**10<sup>th</sup> Emergency Preparedness Working Group  
Meeting  
Lima, Peru  
15-16 August 2016**

# THE 10<sup>th</sup> EPWG MEETING

## Construction of the Tsunami Warning System for High Risk Areas

(VIETNAM'S SELF-FUNDED PROJECT ON TSUNAMI)

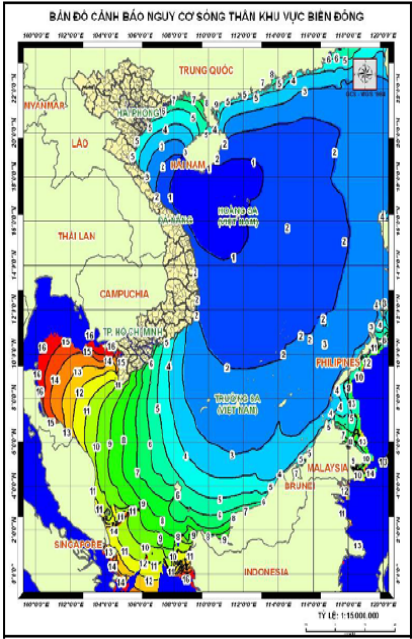
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### OUTLINE:



- Overview
- Objectives
- Main Activities
- Outputs



Source: Bui Cong Que

## Overview on legal framework and existing situation on Tsunami Alarming system (1)

### The Law on Natural Disaster Prevention and Control (2013):

- Article 17<sup>th</sup>: Tsunami database is input information for disaster management;
- Article 20<sup>th</sup>: Responsibilities for particularly the construction, upgrading and expanding the network stations, meteorological observation stations, hydrographic, oceanographic, seismic acquisition stations early warning information on rainfall, storms, floods, earthquakes, *tsunami (MARD)*.
- Article 24<sup>th</sup>: Bulletin/Alarming news on Tsunami: location, intensity, disaster risk level and level of impact of the earthquake; projected/expected starting location, ability, height, level of disaster risk, the movement and the affected area by the tsunami; focal agency to issue the bulletin and international cooperation on Tsunami: Vietnam Academy of Science and Technology;
- Article 26<sup>th</sup>: In case of emergency, evacuation plan will be applied actively for all people living in the affected area

## Overview on legal framework and existing situation on Tsunami Alarming system (2)

### Existing situation:

- Focal Agency: Academy of Science and Technology/Institute of Geography/Center for Earthquake and Tsunami observation and Alarming;
- Telemetry seismic system: So far, only 9 stations in the Red River Delta region; not any in the Central Coastal lines; 24h/7days observation regime.
- A computer system is used to collect and process seismic data define the earthquake's parameters (epicenter coordinates, focal depth, earthquakes magnitude ), tsunami scenarios data management. . .

## PROJECT OBJECTIVES

- Ensure to promptly receive information, through the system of lookout stations and mobile messages in order to actively respond and control disasters.
- Minimum the damages of disaster, contribute to the development of economic – society stability, enhancing national security;
- Enhance the capacity of tsunami warning communications (also other disasters) from communication agency to government agencies and local levels in order to direct and command respond
- Raise community awareness in the prevention, responds and minimize damages of natural disasters.

## MAIN ACTIVITIES

### **2.1. Installation the Tsunami warning system includes:**

- Operating command system: installation in the Central agencies
- System for receiving, handling and storage information.
- Signaling system for warning
- Data transmission system

### **2.2. Installation of equipment command system and equipment at the lookout stations**

### **2.3. Construction of Tsunami warning column**

### **2.4. Training, technology transfer and dissemination**



## OTHERS: PROJECT BUDGET/CAPITAL

- National Budget and Socialization Capital:
  1. National budget ~ 12,28 Mil. USD (94%). MARD will manage the investment for the construction of lookouts stations in residential areas, the central control system and transmission network connection, communication;
  2. Socialization Capital ~ 0.82mil. USD (6%), the construction of the station warning in the tourist areas, industrial zones independently.

## OTHERS: PROJECT PHASES

- Phase 1 (2016-2020): to implement control system installation commander at the central agencies, build 281 lookouts tsunami warning stations in 07 provinces/cities (*include Da Nang, Quang Nam, Quang Ngai, Binh Dinh, Phu Yen, Khanh Hoa and Ninh Thuan*) that have a higher risk potentation exposes to tsunami;
- Phase 2 (after 2020): Carry out the construction of 251 lookout's stations in the rest 06 provinces/cities in the project area.